



ACQUISITION,
TECHNOLOGY
AND LOGISTICS

THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

FEB 12 2010

The Honorable Norman Dicks
Acting Chairman, Subcommittee on Defense
Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

Given the progress at currently operating facilities, the DoD continues to aim toward completing 90 percent destruction of its chemical weapons stockpile by 2012, and 100 percent by 2021. In addition, the DoD will look for opportunities to eliminate the remaining chemical weapons stockpile ahead of current schedules without sacrificing safety and security.

We remain committed to safely destroying the entire chemical weapons stockpile in the most expeditious manner possible. Your support of the Chemical Demilitarization Program is appreciated.

Sincerely,

Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable C.W. Bill Young
Ranking Member



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FEB 12 2010

The Honorable Nancy Pelosi
Speaker
U.S. House of Representatives
Washington, DC 20515

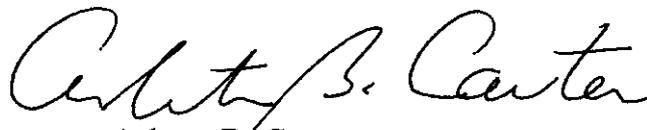
Dear Madam Speaker:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

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Ashton B. Carter

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WASHINGTON, DC 20301-3010

FEB 12 2010

The Honorable Ike Skelton
Chairman, Committee on Armed Services
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

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Sincerely,

Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Howard P. "Buck" McKeon
Ranking Member



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WASHINGTON, DC 20301-3010

FEB 12 2010

The Honorable Carl Levin
Chairman, Committee on Armed Services
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

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Sincerely,

A handwritten signature in black ink that reads "Ashton B. Carter".

Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable John McCain
Ranking Member



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TECHNOLOGY
AND LOGISTICS

THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

FEB 12 2010

The Honorable Daniel K. Inouye
Chairman, Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

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Sincerely,

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Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Thad Cochran
Ranking Member



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3010 DEFENSE PENTAGON
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FEB 12 2010

The Honorable David Obey
Chairman, Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

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Sincerely,

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Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Jerry Lewis
Ranking Member



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3010 DEFENSE PENTAGON
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FEB 12 2010

The Honorable Harry Reid
Majority Leader
United States Senate
Washington, DC 20510

Dear Mr. Leader:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

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Sincerely,



Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Mitch McConnell
Minority Leader



ACQUISITION,
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THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

FEB 12 2010

The Honorable Steny Hoyer
Majority Leader
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Leader:

This letter transmits the December 2009 Semi-Annual Report to Congress, pursuant to section 8119 of the Department of Defense (DoD) Appropriations Act, 2008 (Public Law 110-116), and section 922 of the National Defense Authorization Act for FY 2008 (Public Law 110-181). The report provides DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention deadline of April 29, 2012, but not later than December 31, 2017.

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Sincerely,

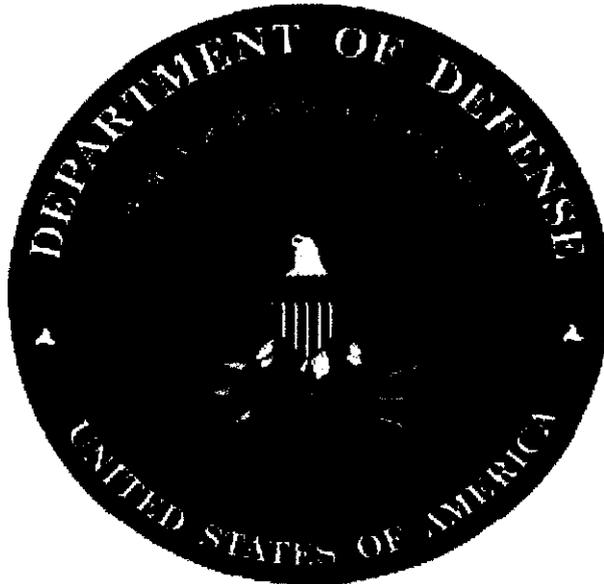
A handwritten signature in black ink that reads "Ashton B. Carter". The signature is fluid and cursive.

Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable John A. Boehner
Minority Leader

**Department of Defense Report
Chemical Demilitarization Program
Semi-Annual Report to Congress**



December 2009

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Department of Defense (DoD) Chemical Demilitarization Program (CDP) Semi-Annual Report to Congress for December 2009

EXECUTIVE SUMMARY

As required by section 8119 of the Department of Defense Appropriations Act, 2008 (Public Law (PL) 110-116) and section 922(c) of the National Defense Authorization Act for Fiscal Year 2008 (PL 110-181), the December 2009 Department of Defense (DoD) Chemical Demilitarization Program (CDP) Semi-Annual Report to Congress presents information describing DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention (CWC) deadline of April 29, 2012, but not later than December 31, 2017 and provides the status of on-going actions to accelerate the program.

The U.S. Army Chemical Materials Agency (CMA) is responsible for the destruction of 90 percent of the U.S. stockpile declared under the CWC located at seven locations: Johnston Atoll; Aberdeen, Maryland; Anniston, Alabama; Tooele, Utah; Pine Bluff, Arkansas; Newport, Indiana; and Umatilla, Oregon. The Assembled Chemical Weapons Alternatives (ACWA) Program is responsible for destroying the remaining 10 percent of the original chemical weapons stockpile located at Pueblo Chemical Depot, Colorado, and Blue Grass Army Depot, Kentucky.

As of December 27, 2009, the CMA sites have destroyed 69.2 percent of the U.S. chemical weapons stockpile declared under the CWC. Destruction operations at Johnston Atoll; Aberdeen, Maryland; and Newport, Indiana were completed in 2000, 2006, and 2008, respectively. The remaining four CMA sites continue to show encouraging progress toward completing its mission ahead of estimates reported in the December 2008 Limited Selected Acquisition Report. Destruction facilities at Pueblo and Blue Grass are currently under construction.

The DoD continues to: 1) be on pace toward CMA completing destruction operations of all the U.S. chemical stockpile under their purview (90 percent of the U.S. stockpile) by 2012 utilizing performance incentives and risk mitigation actions; and 2) accelerate the ACWA Program schedule toward completing destruction of an additional eight percent of the U.S. stockpile at Pueblo in 2017 and the remaining two percent of the U.S. stockpile at Blue Grass in 2021. On-site disposal of hydrolysate at Pueblo and Blue Grass will continue unless technical difficulties arise at which time off-site disposal will be reconsidered.

The DoD will continue working to minimize the time required to complete destruction of the remaining chemical weapons stockpile without sacrificing safety and security, through the continued use of performance incentives, execution of risk mitigation efforts, application of lessons learned from current destruction operations, and effective stewardship of available fiscal resources.

Chemical Demilitarization Program Semi-Annual Report to Congress December 2009

INTRODUCTION

This report provides: 1) DoD's progress toward destruction of the U.S. stockpile of lethal chemical agents and munitions by the Chemical Weapons Convention (CWC) deadline of April 29, 2012, but not later than December 31, 2017; and 2) the status of on-going actions to accelerate the program.

REPORTING REQUIREMENTS

- Section 8119(b) of the Department of Defense Appropriations Act, 2008 (PL 110-116) requires that not later than December 31, 2007, and every 180 days thereafter, the Secretary of Defense shall submit a report on the progress of the DoD toward compliance with destruction of the U.S. stockpile of lethal chemical agents and munitions, including those stored at Blue Grass Army Depot, Kentucky, and Pueblo Chemical Depot, Colorado, by the deadline established by the CWC, and in no circumstances later than December 31, 2017.

- Section 922(c) of the National Defense Authorization Act for Fiscal Year 2008, (PL 110-181) requires not later than March 15, 2008, and every 180 days thereafter until the year in which the U.S. completes the destruction of its entire stockpile of chemical weapons under the terms of the CWC, the Secretary of Defense

Section 8119(b) of Public Law 110-116

The report shall include:

- Updated and projected annual funding levels necessary to achieve full compliance with this section
- Projected funding levels for each report shall include a detailed accounting of the complete life-cycle costs for each of the chemical disposal projects.

Section 922(c) of Public Law 110-181

The report shall include:

- Projected funding levels for each report shall include a detailed accounting of the complete life-cycle costs for each of the chemical disposal projects. The anticipated schedule at the time of such report for the completion of destruction of chemical agents, munitions, and materiel at each chemical weapons demilitarization facility in the U.S.
- A description of the options and alternatives for accelerating the completion of chemical weapons destruction at each such facility, particularly in time to meet the destruction deadline of April 29, 2012, currently provided by the CWC, and by December 31, 2017.
- A description of the funding required to achieve each of the options for destruction described under paragraph (2), and a detailed life-cycle cost estimate for each of the affected facilities included in each such funding profile.
- A description of all actions being taken by the U.S. to accelerate the destruction of its entire stockpile of chemical weapons, agents, and materiel in order to meet the current destruction deadline under the CWC of April 29, 2012, or as soon thereafter as possible.

shall submit a report on the implementation by the U.S. of its chemical weapons destruction obligations under the CWC.

This is the fifth report submitted to Congress.

DoD PATH FOR DESTRUCTION COMPLETION

In 2008, the DoD conducted assessments to define alternatives for destroying the remaining chemical weapons stockpile by the 2012 CWC deadline, but not later than the 2017 congressionally mandated deadline. DoD identified three options to destroy the remaining chemical weapons stockpile: 1) provide performance incentives to ensure destruction is complete by April 29, 2012, at CMA sites; 2) transport portions of the stockpile to operational chemical weapons destruction facility locations; and 3) accelerate the ACWA Program sites’ destruction schedules. The DoD completed the assessment in 2009, and concluded no realistic options are available to destroy the complete U.S. stockpile by the CWC deadline of April 2012. In addition, the only option that showed any reasonable probability of success to achieve the congressionally mandated destruction deadline of 2017 was to transport portions of the stockpile to currently operating destruction facilities; however, this option is currently precluded by law.

As reported in the May 2009 CDP Semi-Annual Report to Congress and as reflected in the Fiscal Year (FY) 2010 President’s Budget Request, the DoD path forward is to: 1) aim towards CMA completing destruction operations by April 29, 2012, utilizing performance incentives and risk mitigation actions; and 2) accelerate the ACWA Program schedule milestones from its Acquisition Program Baseline by working toward completing destruction of the Colorado stockpile on-site by 2017 and the Kentucky stockpile on-site by 2021. On-site disposal of hydrolysate at Pueblo and Blue Grass will continue unless technical difficulties arise at which time off-site disposal will be reconsidered.

Table 1 and 2 are the program cost and schedule estimates as reflected in the December 2008 President’s Budget FY 2010 Limited Selected Acquisition Reports (SARs).

Table 1. CDP December 2008 Limited SAR Cost Estimate (Then Year \$M)

Project/FY	Prior Years	FY10	Total
CMA	18,242.2	1,162.1	24,922.0
ACWA	2,249.9	545.2	8,340.7
Total	20,492.1	1,707.3	33,262.7

CMA– U.S. Army Chemical Materials Agency

ACWA – Assembled Chemical Weapons Alternatives

Table 2. CDP December 2008 Limited SAR Schedule Estimate

	CMA				ACWA	
	TOCDF	ANCDF	UMCDF	PBCDF	PCAPP	BGCAPP
Begin Operations	Aug-96	Aug-03	Sep-04	Mar-05	Jun-14	Oct-18
Complete Operations	Jun-13	Dec-12	Jan-13	May-11	Sep-17	May-21

TOCDF – Toole Chemical Agent Disposal Facility PBCDF – Pine Bluff Chemical Agent Disposal Facility
 ANCDF – Anniston Chemical Agent Disposal Facility PCAPP – Pueblo Chemical Agent-Destruction Pilot Plant
 UMCDF – Umatilla Chemical Agent Disposal Facility BGCAPP – Blue Grass Chemical Agent-Destruction Pilot Plant

Note: Changes made since the May 2009 Semi-Annual Report to Congress

ON-GOING ACTIONS TO ACCELERATE DESTRUCTION

The DoD continues to review technical possibilities to eliminate portions of the ACWA Program chemical weapons stockpile earlier than current plans. The May 2009 Semi-Annual Report identified the use of Explosive Destruction Technologies (EDTs) at the Kentucky site as a possible option to accelerate destruction efforts. An EDT could be used for certain identified chemical munitions as a supplement to the neutralization destruction. The Colorado site has long-planned to utilize an EDT to destroy certain identified munitions such as existing overpacked munitions and operations rejects. DoD is currently analyzing if using an EDT earlier in the ACWA destruction schedule, and potentially expanding its use, would accelerate the destruction program. DoD is also conducting an analysis under the National Environmental Policy Act.

Upon completion of the review for using EDTs, the DoD will report the results, including an estimate of the fiscal resources necessary to accomplish any identified option in a future Semi-Annual Report to Congress.

CONCLUSION

The DoD is on pace to achieve destruction of 90 percent of its stockpile by April 2012, 98 percent destruction by 2017, and 100 percent destruction by 2021. While DoD's current path forward is not able to accommodate the December 31, 2017, deadline, DoD will continue to look for opportunities to eliminate the remaining chemical weapons stockpile ahead of current schedules without sacrificing safety and security.